

# Recombinant Human TNF- $\alpha$

**CATALOG #:** 1050-10 10  $\mu$ g  
 1050-50 50  $\mu$ g  
 1050-1000 1 mg

**LOT #:** \_\_\_\_\_

**SOURCE:** *E. coli*

**PURITY:** >98% by SDS-PAGE and HPLC analyses  
 Endotoxin level is <0.1 ng per  $\mu$ g of TNF- $\alpha$ .

**MOL. WEIGHT:** 17.4 kDa

**FORMULATION:** Lyophilized from a solution of 3 mM Tris, pH 8.0

## RECONSTITUTION:

Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. This solution can then be diluted into other aqueous buffers and stored at 4°C for 1 week or –20°C for future use.

## STORAGE CONDITIONS:

The lyophilized TNF- $\alpha$  should be stored desiccated below 0°C. Reconstituted TNF- $\alpha$  should be stored at working aliquots at -20°C.

## DESCRIPTION:

Tumor Necrosis Factor- $\alpha$  (TNF- $\alpha$ ) is a potent lymphoid factor that exerts cytotoxic effects on a wide range of tumor cells and certain other target cells. Human TNF- $\alpha$  is a 17.4 kDa protein containing 157 amino acid residues.

## BIOLOGICAL ACTIVITY:

The ED<sub>50</sub> as determined by the cytolysis of murine L929 cells in the presence of actinomycin D is  $\leq$  0.05 ng/ml, corresponding to a specific activity of  $\geq 2 \times 10^7$  units/mg.

**FOR RESEARCH USE ONLY! Not to be used in humans..**

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